

## CLAIMS

1. A method for improving a digital image displayed on a display, comprising:
- 5       - determining an instantaneous property of the display;
- determining a property of the digital image;
- determining parameters for an image processing method at least partly on basis of said instantaneous
- 10       property of the display, and said property of the digital image; and
- processing the digital image by means of said image processing method, while applying said parameters.
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2. A method according to claim 1, wherein all measures are repeated at a repetition rate.
3. A method according to claim 1 or 2, further
- 20       comprising:
- detecting a change in said instantaneous property of the display; and
- repeating said determining and processing measures when a change is detected.
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4. A method according to any one of the preceding claims, wherein said determination of parameters is further based on an operation mode of the display.
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5. A method according to any one of the preceding claims, wherein the digital image is adapted to one display out of a group of displays consisting of reflective and transflective displays.
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6. A method according to any one of the preceding claims, wherein said image processing method comprises at least one sub-method chosen from a group of sub-

methods consisting of saturation increase, color componentwise histogram stretch, and unsharp masking.

7. A mobile device comprising a display unit, an  
5 image memory for holding a digital image, and an image improvement unit for improving said digital image displayed on the display unit, said image improvement unit being arranged to process said digital image by means of an image processing method; to determine  
10 parameters for said image processing method at least partly on basis of an instantaneous property of the display, and a property of the digital image.

8. A mobile device according to claim 7, said  
15 display being one of a reflective and a transfective display.

9. A mobile device according to claim 7 or 8,  
wherein said image improvement unit is provided in said  
20 display unit.

10. A mobile device according to anyone of claims 7-  
9, wherein said image improvement unit is provided  
outside of the display unit, and is arranged to  
25 communicate therewith.

11. A display unit comprising a display, an image  
memory for holding a digital image, and an image  
improvement unit for improving said digital image  
30 displayed on the display, said image improvement unit being arranged to process said digital image by means of at least one image processing method; to determine parameters for said image processing method at least partly on basis of an instantaneous property of the  
35 display, and a property of the digital image.

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12. Use of an image processing method comprising at least one sub-method chosen from a group of sub-methods consisting of saturation increase, color componentwise histogram stretch, and unsharp masking, for improving an  
5 digital image for display in accordance with anyone of claims 1-5.

13. Use of an image processing method comprising at least one sub-method chosen from a group of sub-methods  
10 consisting of saturation increase, color componentwise histogram stretch, and unsharp masking, in a mobile device according to anyone of claims 7-9.

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AMENDED SHEET